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The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An engine control system in a vehicle comprising:
 - a variable displacement internal combustion engine;
 - actuators operatively coupled to valves of said variable displacement internal combustion engine;
 - an intake manifold coupled to said variable displacement internal combustion engine;
 - a throttle coupled to said intake manifold;
 - a controller for controlling said throttle and said variable displacement internal combustion engine;
 - an accelerator pedal having an accelerator pedal position sensor electronically coupled to said controller;
 - wherein said actuators close at least one set of valves to a cylinder when said cylinder is deactivated to substantially prevent air flow through said cylinder; and
 - wherein said controller controls the position of said throttle based upon at least a reference torque model to maintain a substantially consistent accelerator pedal position to generate substantially the same torque for different displacements of the variable displacement internal combustion engine, whereby changes in the displacement of the variable displacement internal combustion engine are transparent to the operation of said accelerator pedal.
2. (original) The engine control system of Claim 1 wherein said throttle is an electronic throttle.
3. (original) The engine control system of Claim 1 wherein said accelerator pedal position sensor is an encoder.
4. (original) The engine control system of Claim 1 wherein said variable displacement internal combustion engine is a gasoline engine.

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5. (original) The engine control system of Claim 1 wherein said variable displacement internal combustion engine includes at least two cylinders.

6. (original) The engine control system of Claim 1 wherein said variable displacement internal combustion engine is an eight-cylinder engine.

7. (original) The engine control system of Claim 1 further including an airflow sensor to detect airflow through said intake manifold.

8.(currently amended) A method of varying throttle position in a variable displacement internal combustion engine to produce a consistent relationship between the generated torque of the variable displacement internal combustion engine and the position of an accelerator pedal, comprising:

providing an electronic control module;

providing an electronic throttle;

providing an accelerator pedal having a position sensor;

varying the displacement of the engine;

substantially preventing air flow through a cylinder of the engine in a partially displaced operating mode;

converting the position of the accelerator pedal to a throttle position command using a reference torque model; and

adjusting said electronic throttle in response to said throttle position command and the displacement of the variable displacement internal combustion engine to maintain substantially the same torque for different displacements of the variable displacement internal combustion engine and an accelerator pedal position, whereby the position of said accelerator pedal will remain consistent for substantially the same variable displacement internal combustion engine output torque for different displacements of the variable displacement internal combustion engine.

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9. (original) The method of Claim 8 further comprising the steps of:
providing an air flow sensor for measuring air flow into the variable displacement internal combustion engine; and
adjusting the electronic throttle in response to the airflow.

10. (original) The method of Claim 9 further comprising the step of providing a manifold air pressure sensor for determining the air flow into the variable displacement internal combustion engine.

11. (original) The method of Claim 8 further comprising the step of providing a throttle position correction using a mass-air/cylinder servo control loop.

12. (previously presented) A method of providing a consistent feel in an accelerator pedal for a variable displacement internal combustion engine comprising the steps of:

providing an electronic throttle;
providing a position sensor for the accelerator pedal;
providing a reference torque model for the variable displacement internal combustion engine;
providing a reference air flow model for the variable displacement internal combustion engine;
providing a reference throttle model for the electronic throttle;
substantially preventing air flow through a cylinder of the variable internal combustion engine in a partially displaced operating mode;
generating a desired torque using said reference torque model;
generating a desired air flow using said reference air model; and
adjusting said electronic throttle based on said desired torque, said desired air flow, and said reference throttle model to provide a consistent accelerator pedal position to produce a corresponding torque that is independent of the number of cylinders running in the variable displacement internal combustion engine.

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13. (original) The method of Claim 12 further comprising the step of varying the displacement of the variable displacement internal combustion engine.

14. (original) The method of Claim 12 further comprising the step of providing a mass-air/cylinder servo to adjust said electronic throttle.